

# Prof. Dr. Christian Facchi

Mitglied des SCOPAR-Beraterremiums

## TÄTIGKEITSPROFIL

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- Forschungsprofessur eingebettete und vernetzte Systeme an der Technischen Hochschule Ingolstadt
- Wissenschaftlicher Leiter des Zentrums für Angewandte Forschung der Technischen Hochschule Ingolstadt
- Projektleiter „ITERA“: Testmethodik für RFID-Applikationen
- Projektleiter „Car2XCommunication“, Drittmittelprojekt an der Hochschule Ingolstadt
- Professor für Software Engineering, verteilte Anwendungen und Ingenieurmathematik an der Technischen Hochschule Ingolstadt
- Leiter „Software Konfigurationsmanagement“, Siemens AG München, Entwicklungsabteilung für Mobiltelefone
- Projektleiter „Weltweiter Rollout einer SW-Entwicklungsumgebung für 8 Standorte und ca. 500 SW-Entwickler, Siemens AG München, Entwicklungsabteilung für Mobiltelefone
- Leiter „Weltweite Strategie Software Konfigurationsmanagement und Entwicklungstools“, Siemens AG München, Entwicklungsabteilung für Mobiltelefone
- Projektleiter „Vorfeldprojekt JAVA für Mobiltelefone“, Siemens AG München, Entwicklungsabteilung für Mobiltelefone
- Leiter „Software-Methodik, Konfigurationsmanagement, Toolsupport und Systemadministration“, Siemens AG München, Entwicklungsabteilung für Mobiltelefone
- Software Entwickler Protokollstack (GSM, Layer 3), Siemens AG München, Entwicklungsabteilung für Mobiltelefone
- Promotion in Informatik an der Technischen Universität München bei Prof. Dr. Dr. M. Broy (Träger Leibniz-Preis und Konrad-Zuse-Medaille) mit dem Thema, „Methodik zur formalen Spezifikation des ISO/OSI Schichtenmodells“

## SCHWERPUNKTE

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- RFID-Applikationen
- embedded Systems
- SW Engineering
- Toolbasierte SW Entwicklung (CASE, ...)
- SW Konfigurationsmanagement
- SW Entwicklungsprozesse (traditionell, agil) und deren Evaluierung (CMMI, ...)
- Testmethodik und Automatisierung
- Performanceanalyse und Performanceoptimierung
- Kommunikationssysteme
- sicherheitskritische SW Systeme
- echtzeitfähige Systeme
- verteilte Systeme und deren Spezifikation
- strategische Planung von Informationssystemen

## VERÖFFENTLICHUNGEN (AUSZUG)

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- Implementation of Day One ITS-G5 Systems for Testing Purposes; Raphael Riebl, Christian Facchi, KUVS 2014 accepted paper
- A Model-Based Approach for RFID Application Testing; Andreas Hübner; Christian Facchi, Markus Meyer, Helge Janicke, IUUC (IEEE International Conference on Ubiquitous Computing and Communications) 2013 accepted paper
- RFID Systems from a Cyber-Physical Systems Perspective; Andreas Huebner, Christian Facchi; Markus Meyer, Helge Janicke, WISES 2013(IEEE workshop on Intelligent Solutions in Embedded Systems) accepted paper
- Supporting Test Code Generation with an Easy to Understand Business Rule Language; Christian Bacherler, Ben Moszkowski and Christian Facchi; IARIA 2013, International Journal On Advances in Software, Number 1 and 2, pp 69–79
- Building CPU Stubs to Optimize CPU Bound Systems: An Application of Dynamic Performance Stubs; Peter Trapp, Markus Meyer, Christian Facchi, Helge Janicke and Francois Siewe : International Journal on Advances in Software 4 (1/2), 2011, S. 189–206
- Rifidi Toolkit: Virtuality for testing RFID-Systems; Andreas Hübner, Christian Facchi, Helge Janicke, ICSNC (International Conference on Systems and Network Communications) 2012, accepted paper
- Performance Simulation of a System's Parallelization; Markus Meyer, Helge Janicke, Peter Trapp, Christian Facchi, Marcel Busch; In ICSEA '11: Proceedings of the International Conference on Software Engineering Advances. Xpert Publishing Services, 2011., best paper award
- Richtungsweisende Forschungskonzepte an der Hochschule Ingolstadt am Beispiel des Forschungs- und Testzentrums CARISSMA; Thomas Brandmeier, Christian Facchi, Anja Kucsera, Christian Lauerer, Georg, Overbeck; Die neue Hochschule 1/2012, accepted paper.
- Dynamic Performance Stubs to Simulate the Main Memory Behavior of Application; Peter Trapp, Markus Meyer and Christian Facchi, in SPECTS '11: Proceedings of the International Symposium on Performance Evaluation of Computer and Telecommunication Systems. IEEE Communications Society, 2011.
- Metrics and SCRUM in Real Life – Enemies or Friends?; Christian Facchi, Peter Trapp, Jochen Wessel; In SMEF (Software Measurement Europe Forum) 2011, Rome
- Behavior Specification of a Red-Light Violation Warning Application - An Approach for Specifying Reactive Vehicle-2-X Communication Applications, Sebastian Röglinger, Christian Facchi, 3rd International Workshop on Communication Technologies for Vehicles. Springer LNCS 6596. Page 106 - 118. Oberpfaffenhofen. 03/2011
- Enhancing Continuous Integration by Metrics and Performance Criteria in a SCRUM Based Process - Metrics and SCRUM in an Industrial Environment: A Contradiction?; Christian Facchi, Peter Trapp and Jochen Wessel; accepted paper: EPIC 2010 (Workshop on Leveraging Empirical Research Results for Software Business Success); Bolzano, Italy.
- Using CPU Stubs to Optimize Parallel Processing Tasks: An Application of Dynamic Performance Stubs, Peter Trapp, Markus Meyer, and Christian Facchi; In ICSEA 2010: Proceedings of the International Conference on Software Engineering Advances 2010, Nice, IEEE Computer Society; best paper award
- The Definition of Metrics for Continuous Integration in SCRUM; Christian Facchi, Jochen Wessel; SMEF (Software Measurement Europe Forum) 2010, Rome
- Main Memory Stubs to Simulate Heap and Stack Memory Behavior; Peter Trapp, Christian Facchi; accepted paper "Computer Measurement Group Conference 2010: International Conference Proceedings", Orlando/USA, December 2010
- A Safety Based Selection of Feasible Scenarios for Car2X-Communication - A Statistical Approach; ; Sebastian Röglinger, Christian Facchi; Proceedings of the VDI 14th international Congress on Electronic Systems for Vehicles (Elektronik im Kraftfahrzeug), 2009; VDI Wissenforum GmbH
- How Can Car2X-Communication Improve Road Safety-- A Statistical Based Selection and Discussion of Feasible Scenarios; Sebastian Röglinger, Christian Facchi; Hochschule Ingolstadt "Arbeitsberichte - Working Papers" 15; 2009
- How to Handle CPU Bound Systems: A Specialisation of Dynamic Performance Stubs to CPU Stubs; Peter Trapp, Christian Facchi; CMG 08 Computer Measurements Group Proceedings; Las Vegas, Nevada, 2008
- Performance Improvement: Using Dynamic Performance Stubs; Peter Trapp, Christian Facchi; FH Ingolstadt "Arbeitsberichte - Working Papers" 14; 2007
- The Definition of Metrics for Continuous Integration in SCRUM – How Continuous is our Continuous Integration; C. Facchi; accepted talk, SCRUM Days 2010, Munich, [www.scrum-day.de](http://www.scrum-day.de)

- The Introduction of CM Synergy for Siemens Mobile Phones; C. Facchi; (invited talk) Telelogic User Synergy, Munich, 2002
- Telelogic Tools and Siemens Mobile Phones; C. Facchi; (invited talk) Capital Market Event Telelogic, Malmoe, 2001

## GREMIEN

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- Mitglied im Programmkomitee WISES 2011, Regensburg (IEEE workshop on Intelligent Solutions in Embedded Systems)
- Mitglied im Programmkomitee WISES 2012, Klagenfurt (IEEE workshop on Intelligent Solutions in Embedded Systems)
- Mitglied im Programmkomitee WISES 2013, Pilsen (IEEE workshop on Intelligent Solutions in Embedded Systems)
- Mitglied im Programmkomitee 2013 International Workshop on Agent Systems in Business Process Management (AS-BPM)
- Tagungsleitung 3te Fachtagung Infotainment 2012 (SZ-Veranstaltungen)